

Message Text

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PAGE 01 JOHANN 01351 300838Z
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FM AMCONSUL JOHANNESBURG
TO SECSTATE WASHDC 7731

UNCLAS JOHANNESBURG 1351

E.O. 11652: N/A
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SUBJECT: INQUIRY ABOUT SEWERAGE COLLECTION SYSTEMS

REF: 1. STATE 130044, 2. JOHANNESBURG 1322

JOHANNESBURG MUNICIPALITY HAS RESPONSIBILITY FOR OUTFALL OF
SEWERAGE FROM METROPOLITAN AREA OF JOHANNESBURG PLUS COMPLETE
RESPONSIBILITY FOR OUTFALL OF SIX OTHER ADJACENT TOWNS OF
RANDBURG, SANDTON, EDENVALE, BEDFORDVIEW AND SOWETO. PARTIAL
RESPONSIBILITY FOR ALBERTON AND GERMISTON. PENDING REPLY TO REFTEL
2, FOLLOWING INFORMATION RELATES TO JOHANNESBURG, RANDBURG
AND SANDTON ONLY.

1. JOHANNESBURG - TWO MAIN OUTFALLS WHICH AT JULY 1976
CONSISTED OF 239.1 KILOMETERS AND OTHER DOMESTIC SEWERS OF
2,813.7 KILOMETERS.
2. SIZE OF PIPES - OUTFALLS WHICH CONSIST OF TUNNELS AND PIPES -
3 METER DIAMETER. OTHER DOMESTIC PIPES - 100 MM TO 1200 MM.
3. STORM DRAINS COMPLETELY SEPARATE FROM SEWAGE SYSTEM
4. ALL LINES WORK INTO TREATMENT PLANTS NEVER STREAMS.
5. AT PRESENT THE MAINTENANCE EQUIPMENT USED BY THE MUNICIPALITY
CONSIST OF:

- 1 PERKINS (U.K.) JET MACHINE
- 1 PETTER (U.K.) WATER PUBMP
- 1 LISTER (U.K.) WATER PUMP
- 1 WISCONSIN (U.S.) WATER PUMP

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- 4 BLOWERS FOR VENTILATION OF SEWERS - WISCONSIN (U.S.)
- 2 BLOCKAGE CLEARING MACHINES WITH BRIGGS & STRATTON ENGINES
(U.S. MANUFACTURE)
- 1 BLOCKAGE CLEARING MACHINE - HONDA (JAPANESE)
- 5 HOISTS - BRIGGS & STRATTON (U.S.)
- 1 KAWASAKI - JAPANESE, HOIST
- 4 BUCKET MACHINES - WISCONSIN (U.S.)

20 JET BRUSH CLEANING SETS - SOUTH AFRICAN MANUFACTURE

2. THE MUNICIPALITY IS AT PRESENT CONSIDERING A CONTRACT WITH A LOCAL COMPANY WHICH UTILISES T.V. CAMERAS ON A CLOSED CIRCUIT TO INSPECT SEWERS FOR BREAKAGES AND WATER INFILTRATION.

3. ALL ACQUISITIONS OF NEW EQUIPMENT ARE BY TENDER AND PREFERENCE IS GIVEN TO TENDERS IN WHICH THERE IS A HIGH LOCAL CONTENT. FIRMS WHICH HAVE LOCAL CONTENT OF SAY 80 PERCENT ARE GIVEN A 10 PERCENT PREFERENCE, WHICH CAN OFTEN RESULT IN A COMPANY WHICH QUOTED A PRICE HIGHER THAN AN OVERSEAS TENDERER, GAINING THE CONTRACT. IN ALL INSTANCES, THE PRVINCIAL AUTHORITIES INSIST ON CAPITAL EQUIPMENT BEING OBTAINED FROM COMPANIES WHICH HAVE A LOCAL AGENT.

4. RANDBURG MUNICIPALITY, IMMEDIATELY ADJACENT TO JOHANNESBURG, DEPENDS ON JOHANNESBURG FOR OUTFILLS TO THE DIEPSLOOT TREATMENT PLANT, NORTHWEST OF JOHANNESBURG ON THE ROUTE TO PRETORIA. THE MUNICIPALITY HAS 60 KILOMETERS OF OUTFILLS AND 400 KILOMETERS OF DOMESTIC LINES. THIS LATTER FIGURE DOES NOT INCLUDE PRIVATE SEWERAGE LINES IN THE RURUAL AREAS.

HERE AGAIN, STORM DRAINS AND SEWERAGE LINES ARE SEPARATE AND ALL LINES GO TO THE DIEPSLOOT TREATMENT PLANT VA THE DELTA AND KLEIN JUKSKEI OUTFILL SEWERS. PIPE DIAMETERS ARE 100 MM TO 600 MM
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THERE ARE 18 PUMP STATIONS FOR USE IN AREAS WHERE THERE IS NO GRAVITATION AND THESE ARE EQUIPPED WITH FLYGT PUMPS OF SWEDISH ORIGIN; AND HOMO PUPMS SUPPLIED BY THE JOHANNESBURG FIRMS H.R. HOLFELD AND H.R. HENDERESON COMPANY. THE PUMP SPECIFICATIONS ARE AS FOLLOWS:
ENGINES VARY FROM 2 TO 14 HORSEPOWER; ARE 3 PHASE, 380 VOLTS AND HAVE VARYING AMPERAGE FROM 3 TO 28 AMPS. THE PUMPS SUPPLIED BY HUGH MELLOR NAMELY FLYGT, CAN BE FITTED WITH DIFFERENT IMPELLORS, DEPENDING ON THE PURPOSE OF WHICH THEYARE TO BE USED.

5. SANDTON MUNICIPALITY, ALSO ADJACENT TO JOHANNESBURG AND ALSO DEPENDENT ON THE JOHANNESBURG OUTFILLS, HAS 640 KILOMETERS TOTAL SEWERAGE LINES. PIPE SIZES VARY FROM 150 MM TO 600 MM
LINES GO DIRECT TO DIEPSLOOT TREATMENT PLANT, NEVER INTO STREAMS AND STORM WATER DRAINS AND SEWERAGE ARE SEPARATE. EQUIPMENT IN USE AT PRESENT CONSISTS OF:
FLYGT PUMPS OF SWEDISH ORIGIN
WALLWIN PUMPS OF U.K. ORIGIN
ALL PUMPS ARE OF THE SUBMERSIBLE TYPE (UNDERGROUND WITH NO VISIBLE SUPERSTRUCTURE) AND ARE USED IN AREAS OF NO GRAVITATION.

CLEANING AND MAINTENANCE PUMPS ARE HONDA AND SPATE PUMPS WHICH
ARE USED FOR CLEARING BLOCKED PIPES AND DRAINS.

6. ON RECEIPT OF REFTEL 2, ADDITIONAL INFORMATION WILL BE OBTAINED.
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